

Amendment Dated May 25, 2005

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

1. (currently amended) Optical detector device for a meter, comprising:  
a consumption indicator formed of a rotating disc [[(4)]] provided with a so-called active sector [[(4A)]] and optical elements of emitting type and receiving type opposite said disc, whose received optical signal is processed to infer at least the number of rotations of said disc, [[comprising]] having at least two said optical elements [[(6A, 6B)]] of one type and at least one said optical element [[(7)]] of the other type, [[characterized in that]] wherein said sector [[(4A)]] is a reflecting sector with a centre angle called a first angle ( $\gamma$ ) of between about 45 and 225°, and said two optical elements of one type [[(6A, 6B)]] are emitting elements of a light beam, the lines connecting each trace {S(6A),S(6B)} of these beams on disc [[(4)]] forming a centre angle in the centre of the disc called a nonzero second angle ( $\alpha$ ).
2. (currently amended) Device as in claim 1, [[characterized in that]] wherein said first angle ( $\gamma$ ) is equal to twice said second angle ( $\alpha$ ).
3. (currently amended) Device as in claim 1 [[or 2]], [[characterized in that]] wherein said reflecting sector [[(4A)]] has a centre angle ( $\gamma$ ) of 180°.

Amendment Dated May 25, 2005

4. (currently amended) Device as in [[any of the preceding]] claim[[s]] 1  
[[characterized in that it comprises]] further comprising two emitting optical elements [[(6A,  
6B)]] and one receiving optical element [[(7)]].

5. (currently amended) Device as in claim 4, [[characterized in that]] wherein said  
three optical members [[(6A, 6B, 7)]] are substantially aligned and the receiving optical element  
[[(7)]] is between the emitting elements [[(6A, 6B)]].

6. (currently amended) Device as in [[any of the preceding]] claim[[s]] 1,  
[[characterized in that it comprises]] further comprising two emitting optical elements [[(6A',  
6B'')]] and two receiving optical elements [[(7', 7'')]] associated in pairs, each receiving element  
receiving the optical beam of the emitting element in the same pair.

7. (currently amended) Device as in [[any of the preceding]] claim[[s]] 1,  
[[characterized in that]] wherein the two optical emitters [[(6A, 6B)]] operate sequentially.

8. (currently amended) Device as in [[any of the preceding]] claim[[s]] 1,  
[[characterized in that]] wherein the non-reflecting sector [[(4B)]] of said disc [[(4)]] is inclined  
with respect to the axis of the disc.

Amendment Dated May 25, 2005

9. (currently amended) Device as in [[any of the preceding]] claim[[s]] 1  
[[characterized in that]] wherein the positioning of said optical elements [[(6A, 6B)]] is such that  
the angle of incidence (B) of the optical beam emitted and received by the optical elements is  
less than 60°.

10. (currently amended) Device as in [[any of the preceding]] claim[[s]] 1  
[[characterized in that it comprises]] further comprising a collimator device [[(8)]] for the optical  
beam.

11. (currently amended) Device as in claim 10, [[characterized in that]] wherein said  
collimator device [[(8)]] comprises slits [[(9)]] limiting stray interference between light beams.

12. (currently amended) Device as in [[any of the preceding]] claim[[s]] 1,  
[[characterized in that it comprises]] further comprising an additional optical emitter [[(10)]] for  
presence detection.

13. (currently amended) Device as in claim 12, [[characterized in that]] wherein the  
trace on disc [[(4)]] of this presence detection emitter [[(10)]] is centred on the axis of symmetry  
(A) of the disc.

Amendment Dated May 25, 2005

14. (currently amended) Device as in claim[[s]] 6 [[and 12]], [[characterized in that]]  
wherein said presence detection optical emitter is associated in a pair with a receiving optical  
emitter, the trace (S') of this emitter on the disc being substantially equidistant from those of said  
two preceding emitting optical elements [[(6A', 6B")]].

15. (currently amended) Fluid meter [[(1)]] comprising:  
a rotating disc [[(4)]] that is part of an optical detector device as in [[any of the  
preceding]] claim[[s]] 1.

16. (currently amended) Detection module [[(5)]] intended to cooperate with a fluid  
meter [[(1)]] and comprising said optical elements [[(6A, 6B, 7)]] that are part of a device as in  
[[any of]] claim[[s]] 1 [[to 14]].

17. (currently amended) Module as in claim 16, ~~characterized in that it also comprises~~  
further comprising an optical beam collimator device [[(8)]].

18. (currently amended) Module as in claim[[s 16 and]] 6 [[or 16 and 14]],  
[[characterized in that]] wherein the emitting optical element and the receiving optical element of  
at least one of said pairs are housed in a common support [[(11)]].

Amendment Dated May 25, 2005

19. (currently amended) Module as in claim 18, [[characterized in that]] wherein said support [[(11)]] has a sealing lip [[(11B)]] surrounding the pair of optical elements and intended to bear upon said fluid meter.

20. (currently amended) Module as in claim [[18 or]] 19, [[characterized in that]] wherein said support [[(11B)]] comprises a flange [[(11C)]] separating the two optical elements and intended to bear upon said fluid meter.